NPIC/TDS/D-1031-67 21 September 1967

MEMORANDUM FOR:	Assistant for Tech	nnical Develop	ment, NPIC		
THROUGH :	Chief, Development Chief, Exploitation	t Staff, TD on Systems Bra	nch, DS		
SUBJECT :	Record of Invention	on for Advance	d Rhomboid Atta	chment	
·	e V				
staff.	the Development S	rsigned concei	ved the optical	attachment	25X1
which is describe	d in the subject	Record of Inve	ntion. The con	ception was	25X1
subsequently requ	ced to practice by	y the	et e e e e e e e e e e e e e e e e e e		25X1
	· · · · · · · · · · · · · ·				
2. Although	has f	iled a declara	tion of their i	ntention not	25X1 25X1
that the	Government shoul	d make claim t	o its patent ri	ghts thereby	25X1
preventing others	from making such	a claim.			•
	1 1	-1	wising the annu	mmista data	
requested. As is	chment describes pointed out in t	he attachment	and t	he undersigned	25X1
take credit for t	the concept and characted the physical	Aracteristics	or the invention of the di	rection of	25X1
	Therafore it	is the undersi	en's opinion th	at those at	25X1
respon	sible for this im	mlementation :	should be consid	lered as joint	25X1
inventors with	an	d it would be	mandatory that	they be joined	25X1
in any Government	action before th	e Patent Offic	 .		
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NPIC/TDS/DS	(2)	1 Sept 67)			25X1
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GROUP 1 Excluded from automatic dewngrading and declassification

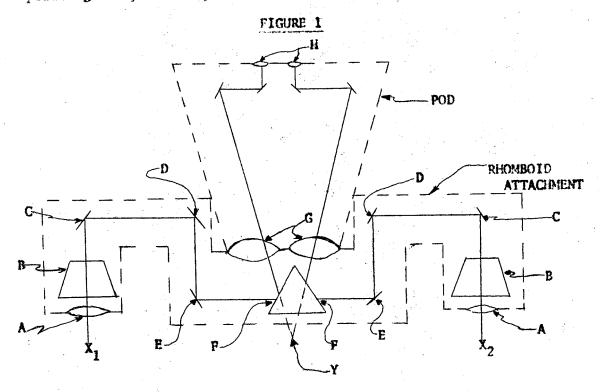


Attachment to NPIC/TDS/D-1031-67 21 September 1967

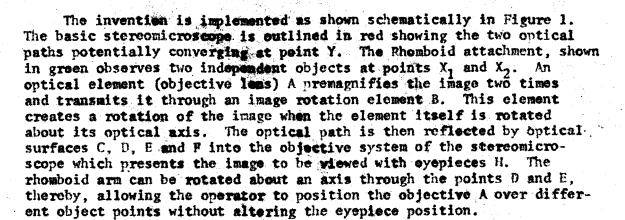
10. Brief Description of Invention

This invention consists of a system of optical elements combined to create an instrument which converts a stereomicroscope into a microstereoscope. A stereomicroscope is an instrument typically with two convergent optical paths, whereby the operator can view a three-dimensional object in a sterescopic mode. Because, the two optical paths converge to permit viewing a single object, the instrument cannot be employed to view stereoscopic photography (two two-dimensional images recorded from a slightly different viewing angle). To convert the stereomicroscope into a microstereoscope, the convergent optical paths must be redirected to permit each one to separately view one of the stereoscopic images.

Simple devices to perform this task have been in existence for a period of years; however, the subject invention substantially improves the basic concept by (1) increasing the total resolving power of the instrument, (2) providing greater objective separation and (3) incorporating independent optical image rotation in each optical path.



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The rhomboid attachment ingreases the performance characteristics of existing stereomicroscopes to the extent that they can be utilized in the future. Success of the concept and implementation is indicated from the initial operational procurement of over two hundred units at a total expenditure of over

14.	are responsible for initiating and monitoring				
	development contracts with private industry. The basic design para-				
	meters were established by and the physical				
	implementation was performed under their direction by the				
	Task Order 2. For this reason those responsible at should				
	he inited in any action before the Patent Office				

15. The inventors assign rights to the Government as stated in CIA Regulation and Executive Order 10096 amended by Executive Order 10930. If the Patens Board find the contribution and interest of the Government is insufficient to justify assignment of the rights, the inventors desire to retain the entire rights title and interest. If the Government elects to prosecute this invention it is requested that the inventors be permitted to retain commercial rights.

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